

REMARKS

Claims 1-4, 6, 7 and 12-20 are pending and are rejected. Reconsideration is respectfully requested.

The 35 U.S.C. § 112 Rejections

Claims 7 and 12 are rejected as being indefinite. Claim 12 has been canceled. Claim 7 has been amended as suggested by the Examiner. Therefore the rejection should be withdrawn.

The 35 U.S.C. § 103 Rejections

Claims 1-4, 6, 7 and 12-17 are rejected as being unpatentable over Mogensen in view of EP '356, Kuo and Weber and Pham-1999. The rejection is respectfully traversed.

Claim 1 has been amended to recite a layer of doped ceria deposited on the electrolyte. The purpose of this layer is to prevent the electrolyte and cathode from reacting. This limitation is absent from the references.

Further, the anode of Mogensen does not contain samarium oxide. Claim 1 has been amended to recite that the anode comprises samarium oxide.

EP '356 discloses the use of doped ceria in a multilayer solid electrolyte; however, the present invention enables the use of doped ceria in a single layer electrolyte.

In contrast with Kuo et al., the present invention does not utilize an air electrode. Therefore Kuo et al. is non-analogous art and should be removed. Further, Kuo et al. does not disclose a cathode comprising cobalt iron based materials; rather, the reference only teaches the use of Co and Fe as dopants. Further, as admitted by the Examiner, Weber et al. only teaches the use of Co and Fe as dopants.

Claims 3, 4, 6 and 12-17 have been canceled. Claims 2 and 7 depend from claim 1. Therefore the rejection should be withdrawn.

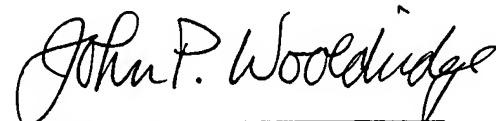
Claims 18-20 are rejected as being unpatentable over Mogensen in view of EP '356, Weber and Pham-1999 and further in view of Yajima. Claims 18-20 have been canceled. Therefore the rejection should be withdrawn.

Conclusions

It is submitted that this application is in condition for allowance based on claims 1, 2 and 7 in view of the amendments thereto and the foregoing comments.

If any impediments remain to prompt allowance of the case, please contact the undersigned at 808-875-0012.

Respectfully submitted,



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